1. (Twice Amended) A chimeric fatty body[-pro-]GRF analog with increased biological potency, of the following general formula:

Al-A2-Asp-Ala-Ile-Phe-Thr-A8-Ser-Tyr-Arg-Lys-Val-Leu-A15-Gln-Leu-A18-Ala-Arg-Lys-Leu-Leu-A24-Asp-Ile-A27-A28-Arg-A30-R<sub>0</sub>

wherein,

A1 is Tyr or His;

A2 is Val or Ala;

A8 is Asn or Ser;

A18 is Ser or Thr

A15 is Ala or Gly;

A24 is Gln or His;

A27 is Met, Ile or Nle;

A28 is Ser or Asp;

A30 is any amino acid sequence of 1 to 15 residues;

Ro is NH2;

wherein Al is N- [or O-]anchored by a hydrophobic tail of the following general formula I:

R<sub>3</sub> R<sub>2</sub> R<sub>1</sub>

 $R_{4}\text{-}(Z)_{h}\text{-}(\dot{C}H)_{g}\text{-}(W'=Y')_{f}\text{-}(\dot{C}H)_{e}\text{-}(W=Y)_{d}\text{-}(\dot{C}H)_{c}\text{-}(X)_{b}\text{-}(G)_{a}\text{-}\qquad I$  wherein,

G is a carbonyl[, a phosphonyl, a sulfuryl or a sulfinyl] group;

X is a oxygen atom, sulfur atom or an amino group (NH); (W=Y) represents cis or trans (CH=CR5);

(W'=Y') represents cis or trans (CH=CR6);

Z is an oxygen or a sulfur atom;

 $R_1$ ,  $R_2$  and  $R_3$ , independently, are selected from [a hydroxyl group,] a hydrogen atom, and a linear or branched  $C_1$ - $C_6$  alkyl group;

 $R_4$  is [an hydroxyl group,] a hydrogen atom[ or a linear or branched  $C_5$ - $C_9$  alkyl group];

 $R_s$  and  $R_6$ , independently, are a hydrogen atom or a linear or branched  $C_1$ - $C_4$  alkyl group;

a is [0 or] 1;

b is 0 [or 1];

c is 0 to [8]3;

d is 0 or 1;

e is 0 to [8]3;

f is 0 or 1;

and/or S)].

g is 0 to [8]4;

h is 0 [to 1];

wherein the sum of d + f = 1 or 2 and the sum of a, b, c, d, e, f, g and h is such that the hydrophobic tail of formula I has a linear main chain of between 5 and 7 carbon atoms [(C, O

- The chimeric fatty body[-pro-]GRF analog of claim [4] $\underline{1}$ , wherein c is 0.
- The chimeric fatty body[-pro-]GRF analog of claim 5, Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Alawherein A30 is Arg-Ala-Arg-Leu.
- The chimeric fatty body[-pro-]GRF analog of claim 6, 7. wherein  $R_0$  is  $NH_2$ .
- The chimeric fatty body[-pro-]GRF analog of claim 7, of 8. cisCH3-CH2-CH=CH-CH2-CO-Tyr-Ala-Asp-Ala-Ile-Pheformula the Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gln-Gly-Glu-Ser-Asn-Gln- ${
  m Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH}_2$  or  $trans{
  m CH}_3-{
  m CH}_2-{
  m CH}={
  m CH-CH}_2-{
  m CH}_3$ CO-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu- $NH_2$ .

- 9. The chimeric fatty body[-pro-]GRF analog of claim 1, wherein [A1 is Tyr or His N-alpha anchored by hydrophobic tail of formula I, wherein a=1; each of b and h=0;] the sum d+f=2;[ G= carbonyl;]  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4=$  hydrogen atom and the sum c+e+g=2, 3 or 4.
- 10. The chimeric fatty body[-pro-]GRF analog of claim 1, wherein [A1 is Tyr or His N-alpha anchored by hydrophobic tail of formula I, wherein a=1; each of b and h=0; the sum of d+f=1 or 2;  $G=carbonyl; R_1, R_2, R_3$  and  $R_4=hydrogen$  atom; and the sum c+e+g=3, 4 or 5.
- 11. A pharmaceutical formulation for inducing growth hormone release which comprises as an active ingredient a GRF analog as claimed in claim 1 or 21, in association with a pharmaceutically acceptable carrier, excipient or diluent.
- 12. A method of increasing the level of growth hormone in a patient which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.
- 13. A method for the diagnosis of growth hormone deficiencies in patients, which comprises administering to said patient a GRF analog as claimed in claim 1 or 21 and measuring the growth hormone response.
- 14. A method for the treatment of pituitary dwarfism or growth retardation in a patient, which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.
- 15. A method for the treatment of wound or bone healing in a patient, which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.

- 16. A method for the treatment of osteoporosis in a patient, which comprises administering to said patient an effective amount of a GRF analog as claimed in claim 1 or 21.
- 17. A method for improving protein anabolism in human or animal, which comprises administering to said human or animal an effective amount of a GRF analog as claimed in claim 1 or 21.
- 18. A method for inducing a lipolytic effect in human or animal inflicted with clinical obesity, which comprises administering to said human or animal an effective amount of a GRF analog as claimed in claim 1 or 21.
- 19. A method for the overall upgrading of somatroph function in human or animal, which comprises administering to said human or animal an effective amount of a GRF analog as claimed in claim 1 or 21.

#### Please add claim 21:

21.(Added) The chimeric fatty body GRF analog of claim 7, of the formula transCH<sub>2</sub>-CH<sub>2</sub>-CH=CH-CH<sub>2</sub>-CO-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH<sub>2</sub>.

Please cancel claims 2,3,4 and 20.